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Manufacturers
Data
Base

MC0027

Flooring system

Flooring
system

Department of Health
and Social Security
January 1973

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Introduction

3 General Introduction

This 1973 Edition of the MDB incorporates some changes suggested by the users.

Feedback from the users can materially assist the Department's monitoring functions. Forms for this purpose will be available.

Technical Document

The Technical Document for each component (see list on back cover) gives component descriptions, dimensional ranges and coding, and advises on selection and use.

Product Specification

The Product Specifications will be supplied by each of the selected manufacturers. A folder will be supplied for each range of components described in the Technical Documents. Manufacturers will send approved MDB information direct to the users. This will include descriptions of performance, details of junctions with adjoining components, drawings or photographs and the fixing and maintenance services offered, sufficient for a user to make a choice of manufacturers in his area. This detailed information should be checked again at tender stage.

Price List

The Price List for each component range gives prices obtained from each manufacturer, the terms and conditions under which these prices have been obtained and the method of measurement. This is a confidential document and will be supplied only to users of the components.

Use and Index

The Use and Index is the key document giving information about the other documents and the use of the system. Part of the Use and Index will be a list of the name, address, telephone number and customer contacts of each of the selected manufacturers.

Service Document

The Service Document is primarily intended for the Main Contractor and gives information about the service he will get from and be required to provide to the selected manufacturer.

Colour Coding

Technical Documents have BLUE covers.

Product Specifications have YELLOW covers.

Price Lists have RED covers.

Component Introduction

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This document describes FLOORING SYSTEMS generally suitable for Health and Welfare buildings.

In the following sections the FLOORING SYSTEMS are described in detail.

In Use and Index it is stressed that successful use of co-ordinated components depends on:-

1 Orderly selection to ensure functional compatibility.

2 Acceptance of dimensional conventions for the incorporation of components in both design and production stages.

3 Definition of junctions within these dimensional conventions so that standard co-ordinated components can always be used.

MDB components have been selected on this basis and the MDB.range offers functionally suitable components which are compatible with adjoining components.

Data given in this document is applicable to all selected components in this category. It is supplemented by manufacturers details given in their product specifications.

The coding used is part of a data co-ordination system based on the CI/SfB system.

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Component Description

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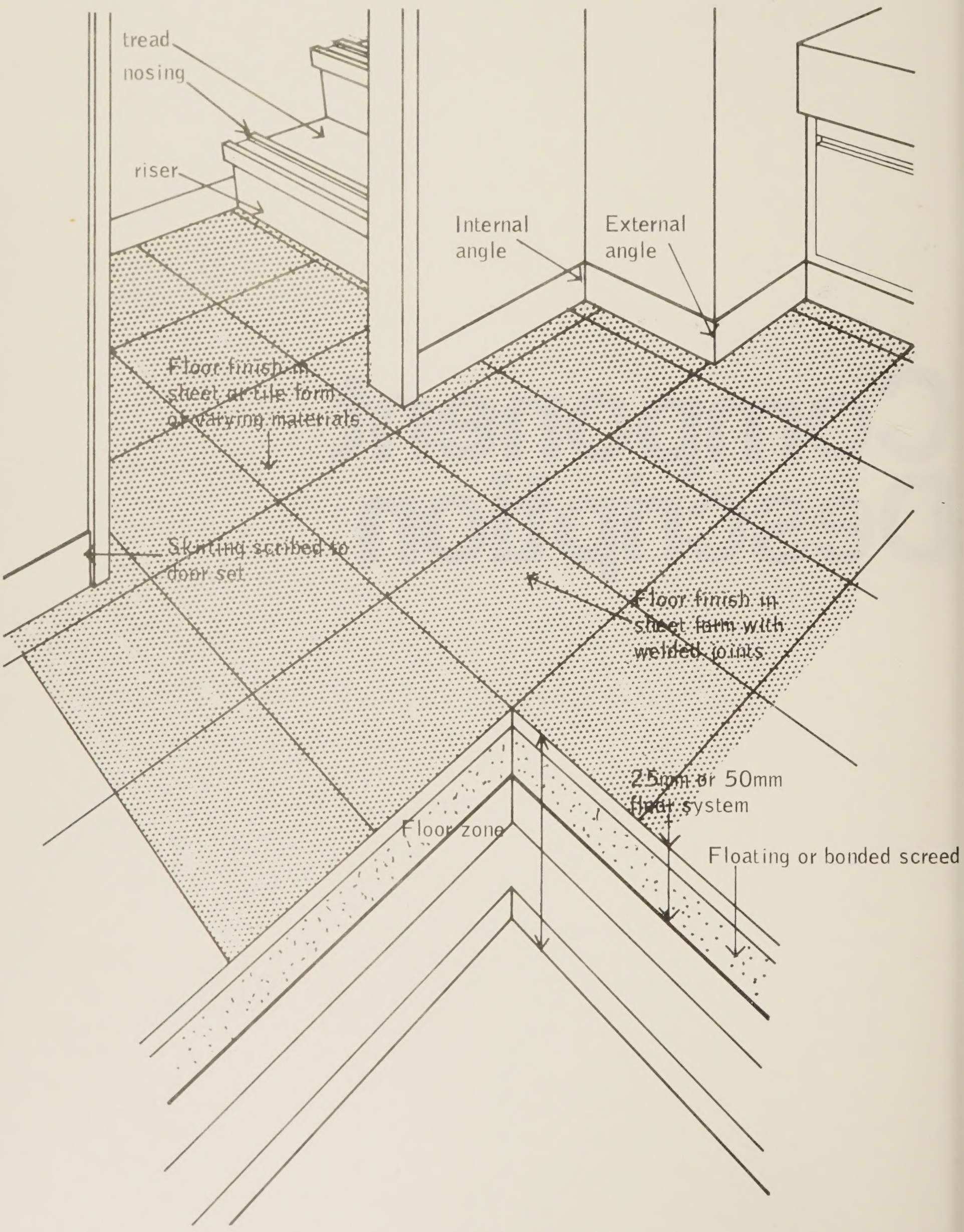
Component Description

A COMPLETE FLOORING SYSTEM COMPRISES



Component description

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Flooring Systems

The systems are available in 25 mm and 50mm thickness and include the finish and the floating or bonded screed.

1·0 Screed

1·1 Floating Screed

Floating screed is generally used to prevent formation of any key between screed and structural slab so that movement within the structure is not transferred to the finish.

1·2 Bonded Screed

Bonded screed is generally used with insitu suspended slabs and solis ground floor slabs or where no differential movement is likely to take place.

2·0 Finishes

2·1 Linoleum

This is inlaid linoleum available in a wide range of colours. It is available in sheets only and in various thicknesses. The base floor for linoleum should be dry, level and evan. A 'stiletto resistant' quality linoleum is also available.

2·2 PVC

2·2·1 This material is manufactured to B.S. 3261: 1960 and is available in tile and sheet form with or without resilient backing. Joints can be welded to provide an impervious surface.

2·2·3 Organic backings in resilient backed PVC are available.

2·2·3 A non slip PVC is now available for use in wet areas, on ramps, in kitchens and bathrooms.

2·3 Anti-static

This material is manufactured in accordance with Hospital Technical Memorandum No. 2 - Anti Static precautions.

2·4 Vinyl Asbestos

This material is manufactured to B.S. 3260: 1960, and is available in tile form only.

2·5 Carpets

Three grades of carpets are available in a wide range of quality and materials.

- Grade 1 - suitable for heavy wear in
  Entrance Halls
  Waiting Areas
  Corridors

- Grade 2 - suitable for medium wear in Teaching areas - Lecture rooms, Libraries etc.

  Office areas
  Staff common rooms
  Staff rest rooms
  Staff living rooms

- Grade 3 - suitable for light wear in

  Staff bedrooms
  Staff bed-sitting rooms

3·0 Plastic dividing strips

Plastic dividing strips are available to break large floor areas and to separate differing floor finishes at door openings etc.

4·0 Skirtings

4·1 Skirtings to linoleum floor are 100mm high coved and integral with the linoleum floor sheet.

4·2 Integral skirtings

A 'set-in' type 100mm high coved PVC skirting is available for use with PVC and vinyl asbestos floor finishes.

A 'sit-on' type 100mm high coved PVC skirting is also available.

5·0 Staircases

5·1 Finishes, including some flushing up and levelling are available in the following materilas for application to concrete stair flights and landings:-

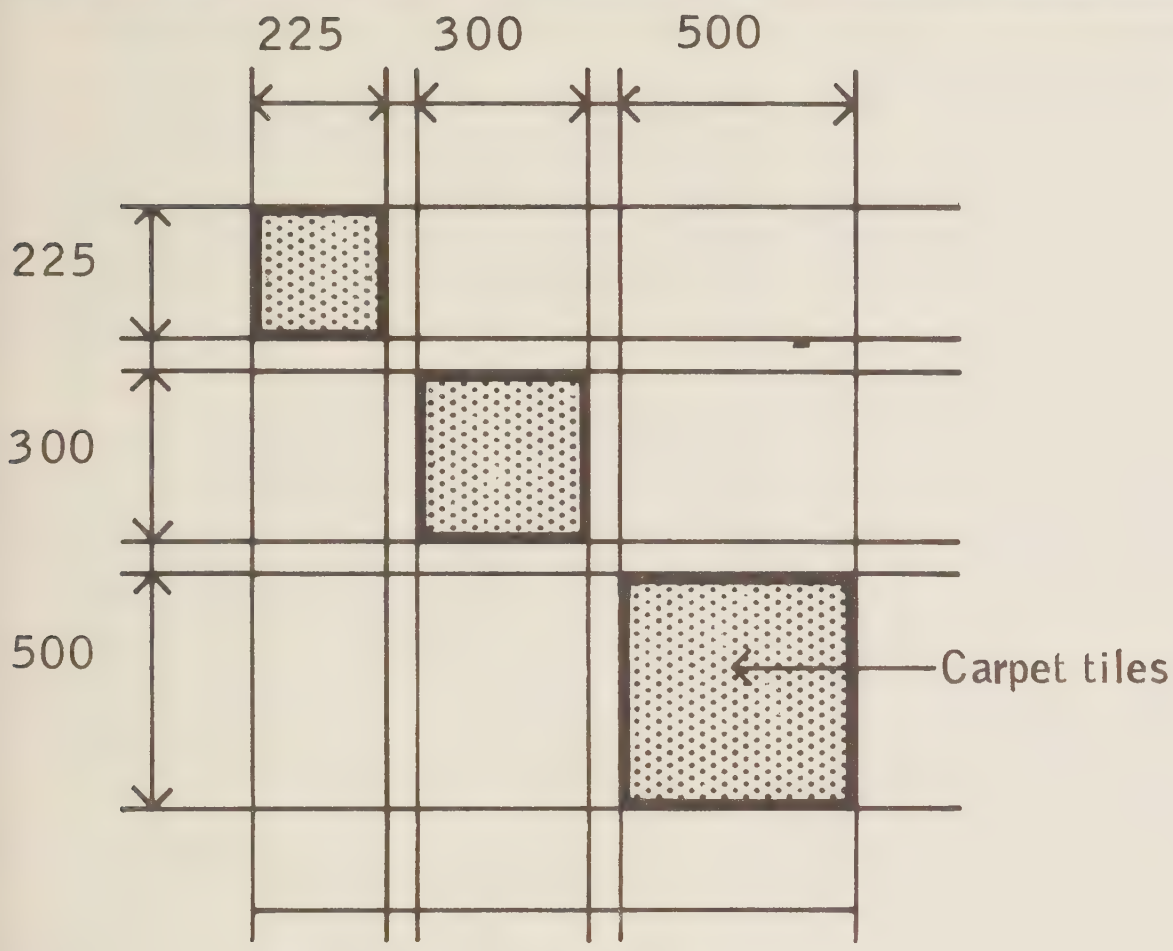
Linoleum, plain and marbled sheet
Stiletto resisting linoleum
PVC sheet
Vinyl asbestos tiles
Resilient backed PVC sheet

5·2 Metal nosings with single and double channel non-slip inserts are available with all the above materials.

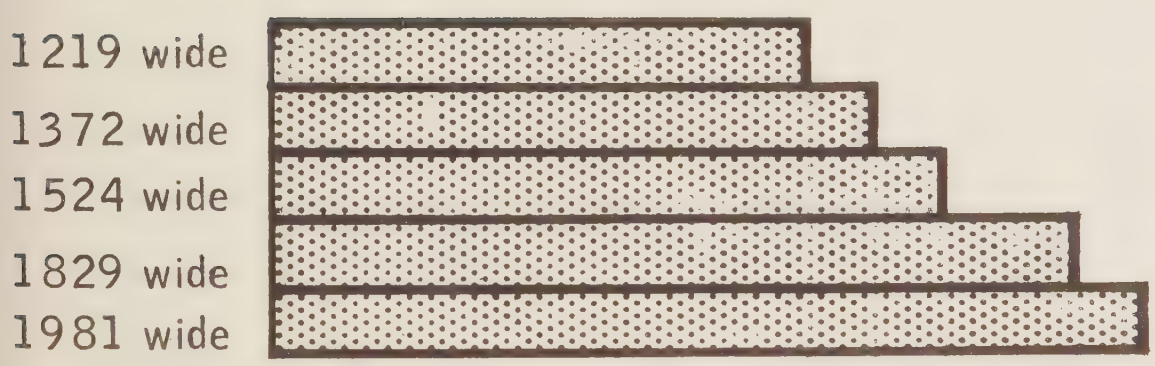
5·3 Damp proof membranes

The use of a damp proof membrane immediately beneath a screed affects the minimum thickness of a screed which can be satsifactorily used.

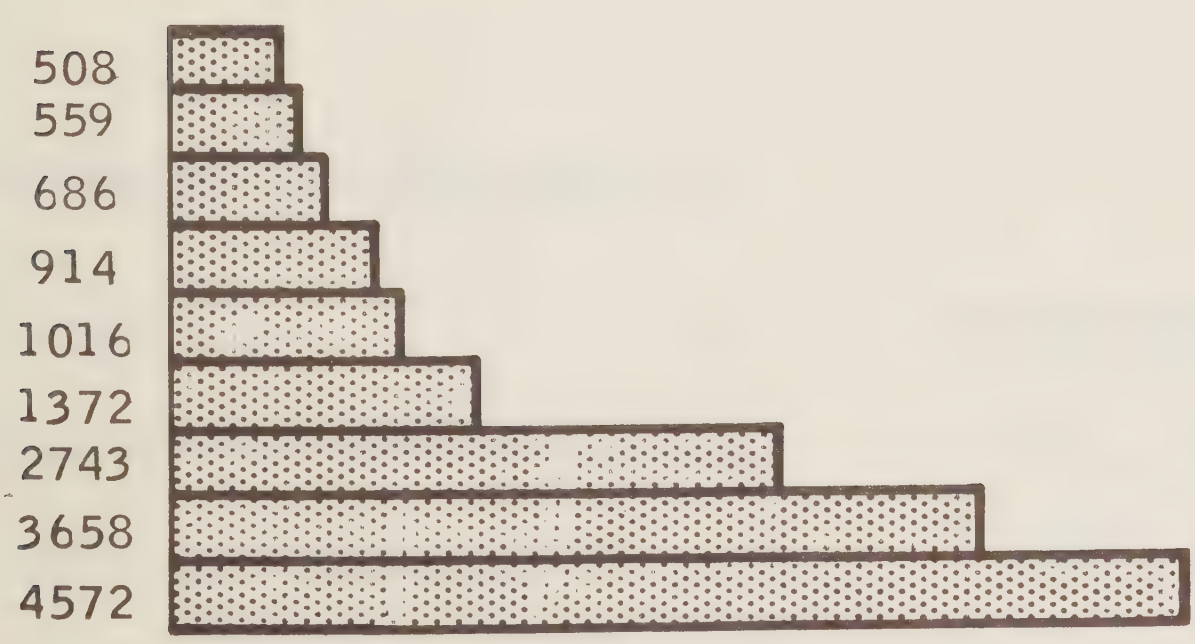
Dimensional Discipline



TILE SIZES



SHEET WIDTHS



CARPET WIDTHS

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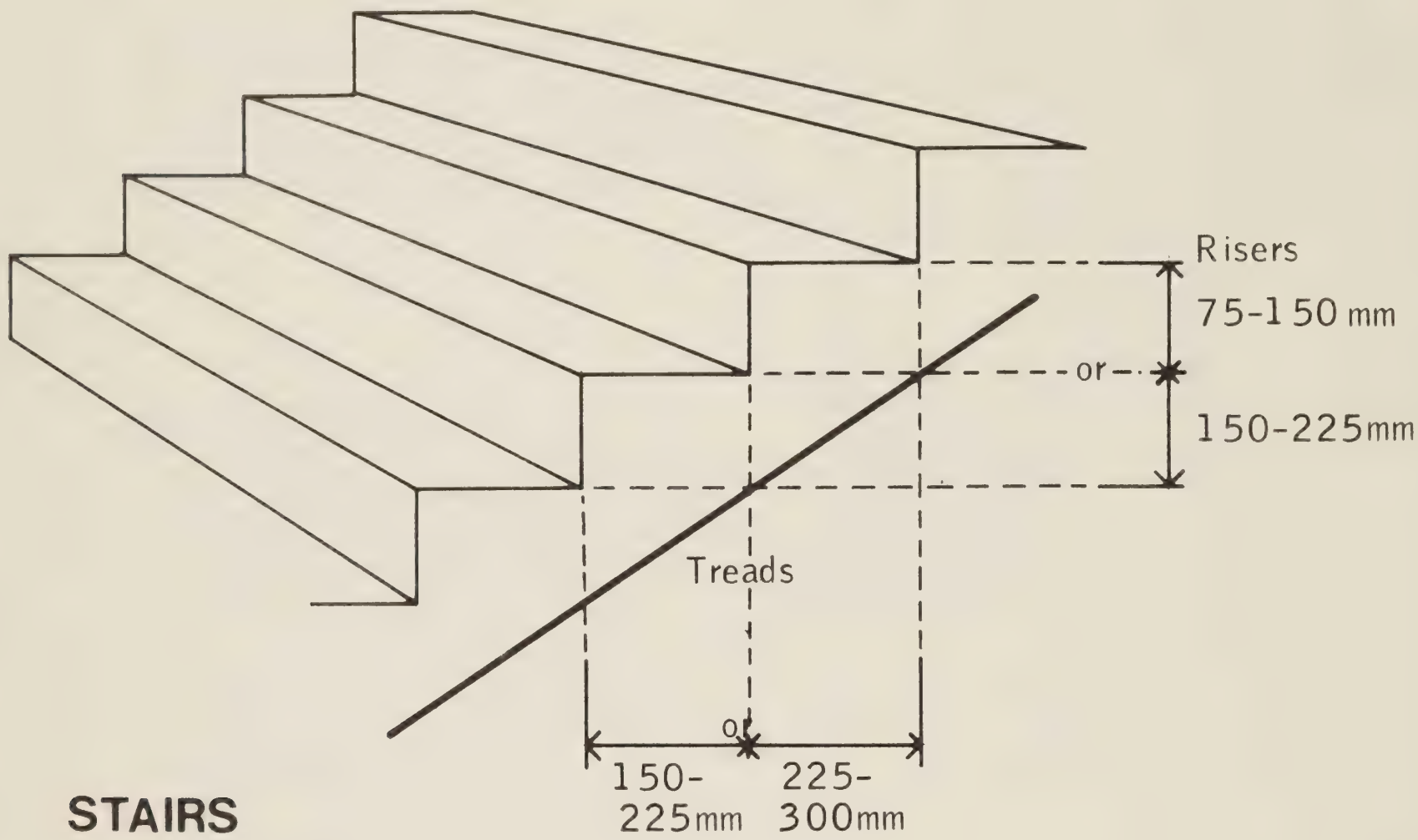
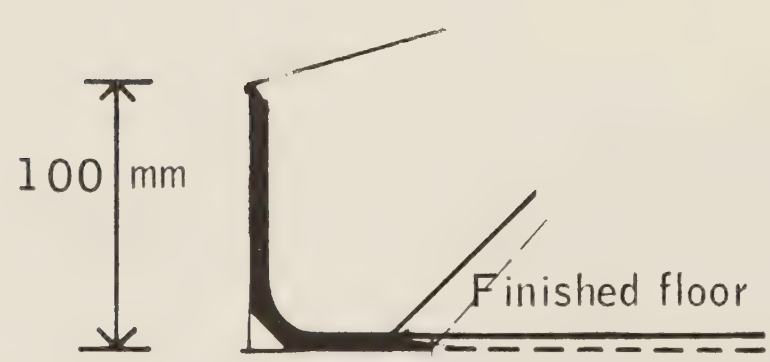
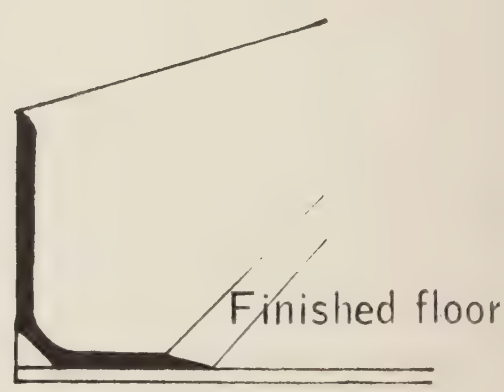
Dimensional Discipline



STAIRS

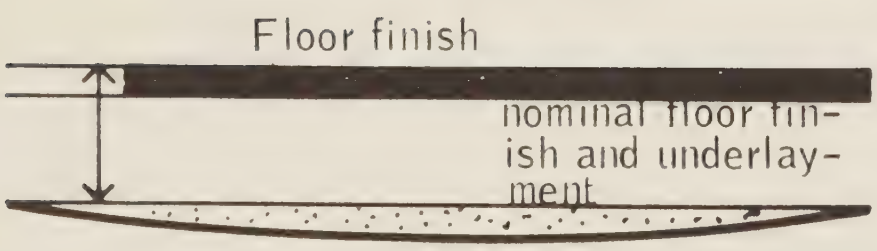


set in skirting

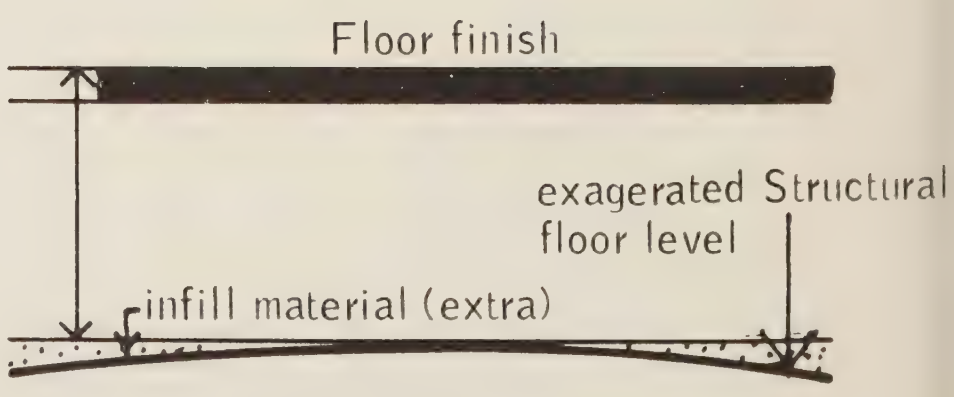


sit on skirting

With 25mm and 50mm systems, the system thickness is measured from the inch point of the structure. Filling or flushing up is extra to the system.



25mm FLOORING SYSTEM



50mm FLOORING SYSTEM

Performance standards

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1·0 All selected flooring systems have been chosen to meet performance criteria relative to their basic composition. (The user should refer to the PRODUCT SPECIFICATION)

1·1 The fire resistance of the chosen flooring system will vary according to the screed thickness chosen. When relying on the screed to give the required fire rating to the structure the user should refer to the PRODUCT SPECIFICATION for detailed information.

1·2 SOUND ATTENUATION

In general the majority of structures are capable of providing the statutory degree of sound attentuation regardless of the flooring system chosen.

1·3 As the performance levels of the flooring systems will vary according to the screed thickness and finish chosen the user should refer to the PRODUCT SPECIFICATION for detailed information. However, in specifying floor finishes the following criteria should be considered.

(a) Volume of traffic
- heavy
or - medium
or - light

(b) whether wet or dry area

(c) degree of hygiene
i.e. jointed or jointless flooring

(d) quietness i.e. sound absorption

(e) cleaning and maintenance.

(f) appearance

(g) skirting types.

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Use

	item	selection sequence	choice	page
Floor systems	1	Select finishes. By following this procedure the current pages will be obtained to make the selection from the range of materials.	Anti-static Linoleum PVC Vinyl Asbestos tiles Carpets	- 17 18 18 19
	2	Select form of material	Tile or Sheet - welded - plain - resilient - non-slip - pattern - thickness - quality - backing	17-19
	3	Determine type and thickness of screed and system.	(i) 50mm floating screed (ii) 25mm bonded screed (iii) 50mm bonded screed	17-19
	4	Select type of skirting	Related to floor finish - set in or sit on - welded or not welded - mitred or preformed angle - colour	20
	5	Select tread and riser finish	Linoleum PVC sheet Resilient backed PVC Non slip PVC VA tiles Stair dimensions Nosing types	21
	6	D.P.M.	Decide on the need for a damp proof membrane	
Finishes only	7	By following the same procedure as 1 - 5 refer to the appropriate pages for codes for finishes only.	Linoleum Flexible PVC Resilient backed PVC Non slip PVC Vinyl asbestos tiles Carpet	17-19

Use Detail

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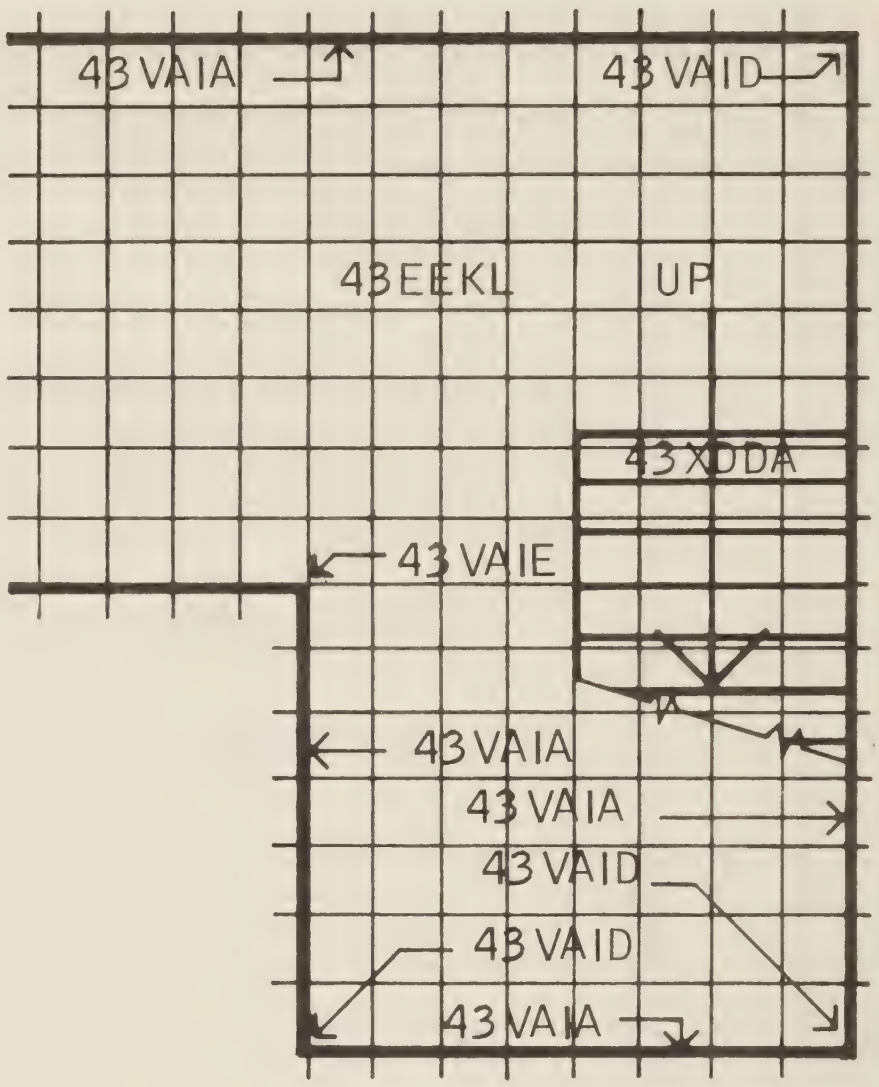
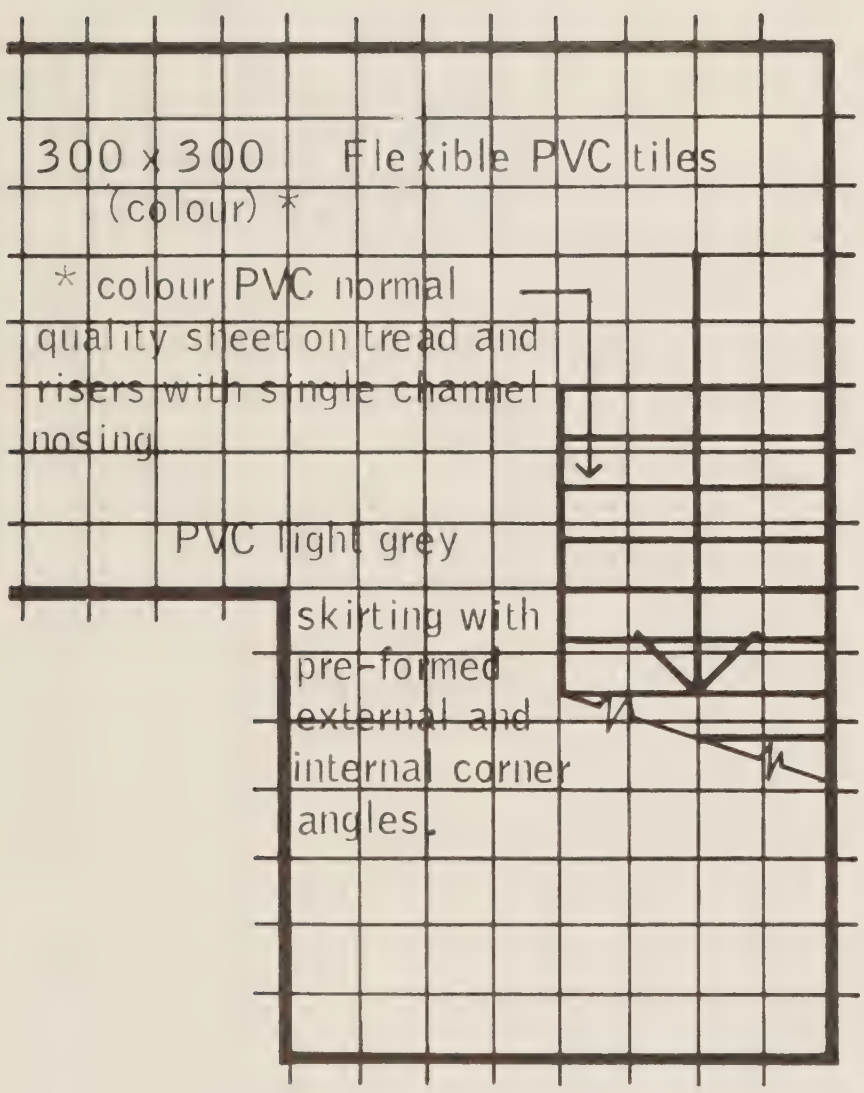
Health Service Design Note No. 5 Co-ordination of components for Health Buildings and space data gives information about the horizontal and vertical controlling dimensions and the location of components.

This section brings together some of the details in Note No. 5 with the data on flooring systems in this document.



Design stage



* State colour ref. No. of a particular selected manufacturer.

It is recommended that at the design stage in conjunction with room data sheets, information on the details of the finishes screeds, skirtings, treads and risers and dividing strips is written in full.

Production stage

The figure above shows that the full information on sketch plans has been put into coded data for processing by the Quantity Surveyor and the Manufacturer.

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Selection

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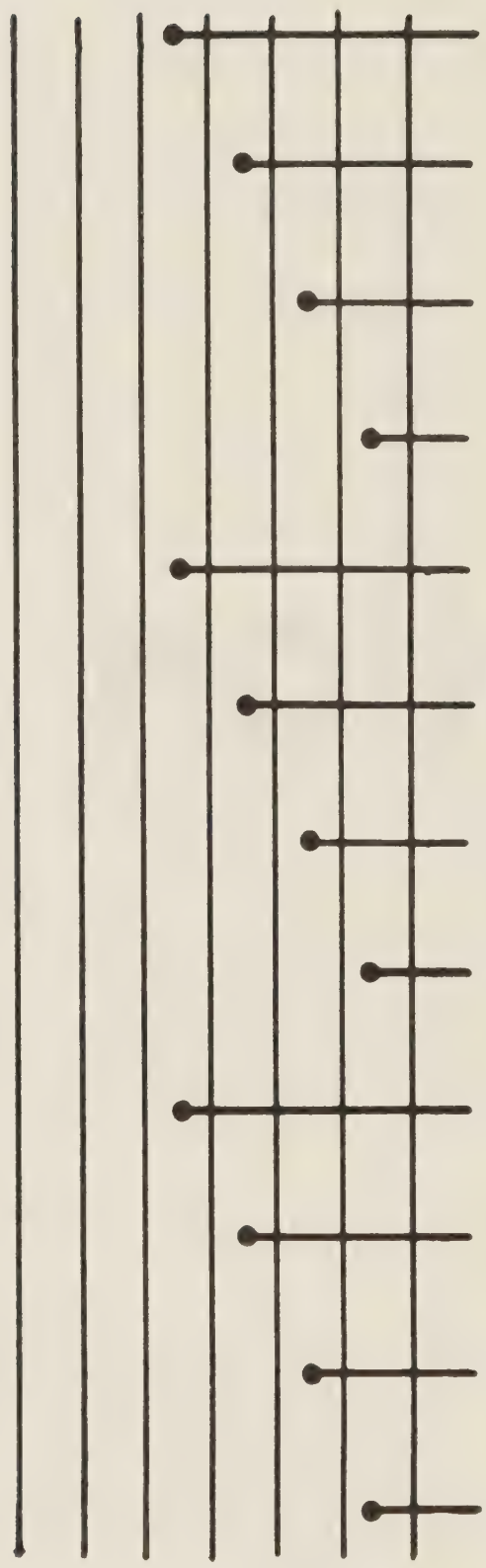
Coding conventions

This table is shown for information purposes only.

Not attempt should be made to extend the range of coded items.

The coding for flooring systems is based on a six-facet alpha-numeric code. Two figures are followed by four letters e.g. 47ABAA. The figures are CI/SfB numbers*.



Type of flooring e.g. Linoleum, PVC, Carpet etc.
Form e.g. Sheet, tile, etc.

Dimensions e.g. Tile dimensions, Sheet thickness etc.
System type, e.g. 25mm or 50mm Floating or Bonded.

STAIRCASES

Materials for treads and risers e.g. linoleum, PVC etc.

Dimensions e.g. dimensions of tread and riser

Accessories e.g. nosings etc.

SKIRTINGS

Material e.g. PVC, linoleum.

Type, and colour, e.g. Welded, Black, Grey etc.

Angles e.g. internal and external angles.

Type of finish	codes			
	25mm system	50mm system		finish only
	Bonded screen	Floating screed	Bonded screed	
LINOLEUM SHEET				
3.2mm :				
with plain colours	43BAEA	43BAEL	43BAEC	43BAEZ
with marbled pattern	43CAEA	43CAEL	43CAEC	43CAEZ
stiletto resisting	43DAEA	43DAEL	43DAEC	43DAEZ
LINOLEUM TILE				
3.2mm :				
225 x 225 mm tiles				
with plain colour	43BEJA	43BEJL	43BEJC	43BEJZ
with marbled pattern	43CEJA	43CEJL	43CEJC	43CEJZ
stiletto resisting marbled pattern	43DEJA	43DEJL	43DEJC	43DEJZ
300 x 300 mm tiles				
with plain colour	43BESA	43BESL	43BESC	43BESZ
with marbled pattern	43CESA	43CESL	43CESC	43CESZ
stiletto resisting marbled pattern	43DESA	43DESL	43DESC	43DESZ
DIVIDING STRIP	43YAZZ			
D.P.C.	43ZAZZ			

Type of finish	codes			
	25mm system	50mm System		finish only
	Bonded screed	Floating screed	Bonded screed	
FLEXIBLE P.V.C.				
SHEET				
2.00mm normal quality	43EAAA	43EAAL	43EAAC	43EAAZ
2.00mm extra quality	43EBAA	43EBAL	43EBAC	43EBAZ
2.00mm with joints				
welded - normal quality	43ECAA	43ECAL	43ECAC	43ECAZ
welded - extra quality	43EDAA	43EDAL	43EDAC	43EDAZ
TILES 2.0mm				
225x225mm normal quality	43EEHA	43EEHL	43EEHC	43EEHZ
extra quality	43EFHA	43EFHL	43EFHC	43EFHZ
300x300mm normal quality	43EEKJ	43EEKL	43EEKC	43EEKZ
extra quality	43EFKA	43EFKL	43EFKC	43EFKZ
RESILIENT BACKED P.V.C. SHEET				
3.00mm with organic backing	43HADA	43HADL	43HADC	43HADZ
3.00mm with inorganic backing	43TADA	43TADL	43TADC	43TADZ
3.00mm with joints welded:				
with organic backing	43HCDA	43HCDL	43HCDC	43HCDZ
with inorganic backing	43TCDA	43TCDL	43TCDC	43TCDZ
NON-SLIP P.V.C.				
2.5mm safety tread sheet	43FABA	43FABL	43FABC	43FABZ
2.5mm safety tread sheet welded.	43FCBA	43FCBL	43FCBC	43FCBZ
VINYL ASBESTOS TILES				
2.00mm 9" x 9"	43IEHA	43IEHL	43IEHC	43IEHZ
2.5 mm 9" x 9"	43IEIA	43IEIL	43IEIC	43IEIZ

Range carpets

Type of finish	Carpet systems (inc. screed)			Carpet and underlay on :		
	25mm system	50mm system		25mm screed	50mm screed	
	Bonded screed	Floating screed	Bonded screed	Bonded screed	Floating screed	Bonded screed
GRADE 1 CARPETS						
NEEDLEPUNCH:-						
Tiles, adhesive fixed	43JQZD	43JQZN	43JQZE	43JQZB	43JQZL	43JQZC
Tiles, laid loose	43JPZD	43JPZN	43JPZE	43JPZB	43JPZL	43JPZC
Sheet, adhesive fixed	43JHZD	43JHZN	43JHZE	43JHZB	43JHZL	43JHZC
Sheet, smoothedge	43JGZD	43JGZN	43JGZE	43JGZB	43JGZL	43JGZC
CORD:-						
Sheet, smoothedge	43JIZD	43JIZN	43JIZE	43JIZB	43JIZL	43JIZC
TUFTED:-						
Sheet, smoothedge	43JJZD	43JJZN	43JJZE	43JJZB	43JJZL	43JJZC
Sheet, adhesive fixed	43JKZD	43JKZN	43JKZE	43JKZB	43JKZL	43JKZC
GRADE 2 CARPETS						
CORD:-						
Sheet, smoothedge	43KIZF	43KIZQ	43KIZG	43KIZB	43KIZL	43KIZC
TUFTED :-						
Sheet, smoothedge ;	43KJZF	43KJZQ	43KJZG	43KJZB	43KJZL	43KJZC
Sheet, adhesive fixed	43KKZF	43KKZQ	43KKZG	43KKZB	43KKZL	43KKZC
Sheet, waffle back	43KLZF	43KLZQ	43KLZG	43KLZB	43KLZL	43KLZC
WILTON :-						
Sheet, smoothedge	43KMZF	43KMZQ	43KMZG	43KMZB	43KMZL	43KMZC
GRADE 3 CARPETS						
TUFTED :-						
Sheet, smoothedge	43LJZH	43LJZS	43LJZI	43LJZB	43LJZL	43LJZC
Sheet, adhesive fixed	43LKZH	43LKZS	43LKZI	43LKZB	43LKZL	43LKZC
Sheet, waffle back	43LLZH	43LLZH	43LLZI	43LLZB	43LKZL	43LLZC
WILTON :-						
Sheet, smoothedge	43LMZH	43LMZS	43LMZI	43LMZB	43LMZL	43LMZC

Type and colour	SKIRTING	INTERNAL ANGLE		EXTERNAL ANGLE	
	length	mitred	preformed	mitred	preformed
INTEGRAL					
with LINOLEUM floor (3.2mm sheet) :					
Plain colour	43VCAA	43VCAB	-	43VCAC	-
marbled pattern	43VCBA	43VCBB	-	43VCBC	-
stiletto resisting marbled pattern	43VCCA	43VCCB	-	43VCCC	-
SET IN					
to suit 2.0mm P.V.C. sheet or tile :					
Black	43VAMA	43VAMB	43VAMD	43VAMC	43VAME
Grey	43VAIA	43VAIB	43VAID	43VAIC	43VAIE
To suit 3.0mm P.V.C. sheet or tile:					
Black	43VANA	43VANB	43VAND	43VANC	43VANE
Grey	43VAJA	43VAJB	43VAJD	43VAJC	43VAJE
To suit 2.0mm VINYL ASBESTOS floor tiles:					
Black	43VAPA	43VAPB	43VAPD	43VAPC	43VAPE
Grey	43VAKA	43VAKB	43VAKD	43VAKC	43VAKE
To suit 2.5mm VINYL ASBESTOS floor tiles:					
Black	43VAQA	43VAQB	43VAQD	43VAQC	43VAQE
Grey	43VALA	43VALB	43VALD	43VALC	43VALE
*SET IN AND WELDED					
at floor and running length.	*Coding for sit on skirting to follow.				
To suit 2.0mm sheet:					
Black	43VAEA	43VAEB	43VAED	43VAEC	43VAEE
Grey	43VAAA	43VAAB	43VAAD	43VAAC	43VAAE
To suit 3.0mm sheet:					
Black	43VAFA	43VAFB	43VAFD	43VAFC	43VAFE
Grey	43VABA	43VABB	43VABD	43VABC	43VABE

Staircase finishes

Type of finish	NOSING	75-150mm RISERS		150-225mm RISERS	
	Channel type	150-225 mm Tread	225-300 mm Tread	150-225 mm Tread	225-300 mm Tread
LINOLEUM					
3.2mm Sheet : plain colours	Single	43XAAA	43XABA	43XACA	43XADA
	Double	43XAAB	43XABB	43XACB	43XADB
marbled pattern	Single	43XBAA	43XBBA	43XBCA	43XBDA
	Double	43XBAB	43XBBB	43XBCB	43XBDB
stiletto resisting marbled pattern	Single	43XCAA	43XCBA	43XCCA	43XCDA
	Double	43XCAB	43XCBB	43XCCB	43XCDB
FLEXIBLE P.V.C.					
2.0mm Sheet: normal quality	Single	43XDAA	43XDBA	43XDCA	43XDDA
	Double	43XDAB	43XDBB	43XDCB	43XDDB
extra quality	Single	43XEAA	43XEBA	43XECA	43XEDA
	Double	43XEAB	43XEBB	43XECB	43XEDB
RESILIENT BACKED P.V.C.					
3.0mm Sheet: with organic backing	Single	43XFAA	43XFBA	43XFCA	43XFDA
	Double	43XFAB	43XFBB	43XFCB	43XFDB
with inorganic backing	Single	43XGAA	43XGBA	43XGCA	43XGDA
	Double	43XGAB	43XGBB	43XGCB	43XGDB
NON-SLIP P.V.C.					
2.5mm safety tread sheet.	Single	43XIAA	43XIBA	43XICA	43XIDA
	Double	43XIAB	43XIBB	43XICB	43XIDB
VINYL ASBESTOS TILES	Single	43XHAA	43XHBA	43XHCA	43XHDA
	Double	43XHAB	43XHBB	43XHCB	43XHDB

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Code index

To find a coded system contained in the previous pages use the index below. Columns 1, 2, 3 and 4 uses the third, fourth, fifth and sixth letter of the code respectively. For example, to find 43BEJL system, locate B in column 1, E (relative to B) in column 2, J (relative to E) in column 3, L (relative to J) in column 4 and read across the page number ( ) in the last column.

Column				Page No.
1	2	3	4	
B C D Y Z	A E	E J S Z	A C J L Z	32
E F H J T	A B C D E	A B D H I K	A C J L Z	33
V	A C	A B C E F I J K L M N P Q	A B C D E	35
X	A B C D E F G H I	A B C D	A B	36
J K L	H I J K L M P Q	Z	B D E F G H I M N P Q R S Z	34

3|4

MDB reference

0	Use and Index	Use and Index	0/1
	Service document	Service document	0/2
1	Structure	Structure (reprint)	1/1
2	External envelope	Roofing systems	2/1
		Cladding (later)	2/2
		Windows and composite infill panels	2/3
3	Internal sub-division	Partitions	3/1
		Door sets	3/2
		Ceiling system	3/3
		Flooring system	3/4
		Cubicles	3/5
4	Services and Drainage	Sanitary assemblies	4/1
		Sanitary assembly panels	4/2
5	Fixtures, furniture and equipment	Storage and worktop units	5/1
		Signposting	5/2
		Curtain tracks	5/3

Flooring system